# PATENT COOPERATION TREATY PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 15 APR 2004

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Applicant's or agent 151447/HT/KR	's file reference	FOR FURTHER ACT	See Notification Preliminary Exa	n of Transmittal of International amination Report (Form PCT/IPEA/416)	
International applica	ation No.	International filing date (da	ay/month/year)	Priority date (day/month/year)	
PCT/NO 02/003	04	30.08.2002	+ %	30.08.2002	
International Patent H04L7/00	Classification (IPC) or bo	oth national classification an	d IPC		Ī
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Applicant TELEFONAKTI	EBOLAGET LM ERI	CSSON et al.	1 131	er i wit.	٠.
1. This interna Authority ar	ational preliminary exar and is transmitted to the	nination report has been applicant according to A	prepared by this Interticle 36.	rnational Preliminary Examining	
2. This REPO	RT consists of a total of	of 5 sheets, including this	s cover sheet.		:
heen	amended and are the l	nied by ANNEXES, i.e. s basis for this report and/o n 607 of the Administrativ	or sheets containing re	on, claims and/or drawings which have ectifications made before this Author he PCT).	ve rity
These anno	exes consist of a total of	of sheets.		· , · · ·	
3. This report	contains indications re	elating to the following ite	ms:	,	s ·
ı ⊠	Basis of the opinion				
11 🗆	Priority				
III 🗆	Non-establishment of	opinion with regard to no	velty, inventive step a	and industrial applicability :	
	Lack of unity of invent			water water	
V ⊠	Reasoned statement citations and explanat	under Rule 66.2(a)(ii) with ions supporting such stat	h regard to novelty, in tement	ventive step or industrial applicability	y;
VI □	Certain documents cit	ed	•		
VII 🗆	Certain defects in the	international application			
_		on the international applic	cation	English to the property	
	•	.•			
Date of submission	of the demand		Date of completion of the	nis report	
16.03.2004	<b>:</b>		14.04.2004		
preliminary examin Euro D-80 Tel.	pean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 5236		Authorized Officer Hamer, J	A September Polani	
Fax:	+49 89 2399 - 4465		Telephone No. +49 89	2399-8827	0 . 42v.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NO 02/00304

I.	<b>Basis</b>	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages	•		,		
	1-9		as originally filed				
	Clair	ns, Numbers	and the second s	11. 11.41	Transfer of		
	1-11		as originally filed	· ·			
	Drav	vings, Sheets			٠		
	1/4-4	1/4	as originally filed				
2.	With lang	regard to the langua	<b>age</b> , all the elements marked ernational application was file	above were availab d, unless otherwise	le or furnished indicated unde	to this Authority ir r this item.	1 the
	The	se elements were ava	ailable or furnished to this Au	thority in the followin	g language:	, which is:	
		the language of a tra	nslation furnished for the pur	poses of the internat	tional search (u	ınder Rule 23.1(b)	)).
		the language of publi	ication of the international ap	plication (under Rule	∋ 48.3(b)).	1	
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the pur 3).	poses of internation	al preliminary e	xamination (unde	r
3.	With	n regård to any <b>nucle</b> mational preliminary e	otide and/or amino acid see examination was carried out	<b>quence</b> disclosed in on the basis of the s	the internation equence listing	al application, the p:	
			rnational application in writter		1 · - 6		
		filed together with the	e international application in	computer readable f	orm. A.		
		furnished subsequer	ntly to this Authority in written	form.	** ***	•	
		furnished subsequer	ntly to this Authority in compu	ter readable form.	. •	•	
		in the international a	he subsequently furnished w pplication as filed has been f	umisnea.			
		The statement that the listing has been furn	he information recorded in coished.	omputer readable for	rm is-identical t	o the written sequ	ence
4.	The	amendments have r	esulted in the cancellation of	:			
		the description,	pages:				
		the claims,	Nos.:		:. :		
		the drawings,	sheets:		·. 4		
							•

### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/NO 02/00304

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
•	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

No:

Yes: Claims

1-11

Inventive step (IS)

Claims No:

Yes: Claims Claims No:

1-11

Industrial applicability (IA)

Yes: Claims Claims 1-11

2. Citations and explanations

see separate sheet

#### V- Reasoned Statement

- The following documents are cited: 1.
  - D1: WO 98 25367 A (DSC COMMUNICATIONS AS ; NIELSEN ANDERS BOEJE (DK)) 11 June 1998 (1998-06-11)
  - D2: DATABASE WPI Section EI, Week 200047 Derwent Publications Ltd., London, GB; Class U23, AN 2000-519766 XP002237855 & JP 2000 201068 A (NEC CORP), 18 July 2000 (2000-07-18)
- The subject-matter of claim 1 of the present invention is concerned with a method 2. in a telecommunication or data network of reducing phase jumps in a frame synchronisation signal when switching from a first original reference signal to a second reference signal. As the phase of the two clocks may be different, switching from one to the other may cause a phase jump. D1 deals with this. problem by using a digital error signal generated in response to the difference in phases of the two clocks. This phase difference sinal is transferred to a central numerically controlled oscillator onto which the system clock is locked. In D2, a reference clock is divided by two and if necessary use to invert the other reference clock. In claim 1 of the present application, a different approach is taken. The two incoming reference clocks are multiplied by a factor n to create clocks of a higher frequency. One of these higher frequency clocks is then selected. Following selection, the selected higher frequency clock is then divided by n again, resulting in a lower frequency clock. If the selection takes place within a lower frequency clock period, the resulting clock phase jump is only one n<sup>th</sup> of the lower frequency clock period or less. Thus the result is achieved with minimal circuitry. The features of claim 1 are not found in either of the documents cited. Thus claim 1 involves an inventive step and meets the requirements of Articles 33(2) and (3) PCT.
- The subject-matter of independent claim 6 is essentially the same as that of claim 3. 1, but expressed in terms of apparatus features. Thus for the same reasons outlined above, claim 6 also meets the requirements of Articles 33(2) and (3) PCT.
- The subject-matter of dependent claims 2 to 5 and 7 to 11 includes features which 4. further restrict the scope of claims 1 and 6 respectively. As a result, these claims also meet the requirements of Articles 33(2) and (3) PCT.

- The following deficiencies are found in the application. If applicable they should be 5. remedied when entering a regional phase (e.g. application for a European patent):
- The claims do not meet the requirements of Rule 6.2(b) PCT in that they do not a). contain reference signs.
- The independent claims do not meet the requirements of Rule 6.3(b) PCT in that b) they are not divided into the two-part form.
- The most relevant of the documents cited in the International Search Report , c). should be referenced and briefly discussed in the description, Rule 5.1(a)(ii), PCT.